

AMENDMENTS TO THE CLAIMS

Claims 1-4 (canceled)

5. **(currently amended)** The ~~support-bound probe~~ solid support of claim 12, wherein the crosslinking moiety is psoralen.

6. **(currently amended)** The ~~support-bound probe~~ solid support of claim 12, wherein the target moiety is a single-stranded or double-stranded nucleotide sequence.

Claims 7-8 (canceled)

9. **(currently amended)** The ~~support-bound probe~~ solid support of claim 12, wherein the pairing oligonucleotide sequence comprises between 3 and 50 nucleotides.

10. **(currently amended)** The ~~support-bound probe~~ solid support of claim 12, wherein the pairing oligonucleotide sequence comprises between 3 and 20 nucleotides.

11. **(currently amended)** The ~~support-bound probe~~ solid support of claim 12, wherein the pairing oligonucleotide sequence comprises between 3 and 10 nucleotides.

12. **(currently amended)** A solid support bearing an array of support-bound probes ~~of claim 4~~ on the surface thereof, wherein said support bound probes comprise:

a capture oligonucleotide sequence covalently attached to the surface of said solid support, and

a conjugate, comprising

a target moiety,

a pairing oligonucleotide sequence which specifically hybridizes to the surface-bound oligonucleotide sequence, and which is covalently attached to the target moiety, and

a crosslinking moiety covalently bound to the pairing oligonucleotide sequence and to either the surface-bound oligonucleotide sequence or the surface of the solid support, and

wherein said solid support bears a probe density of between $1-12 \times 10^{-11}$ moles per cm^2 .

13. **(original)** The solid support of claim 12, bearing at least 50 probes on the surface thereof.

14. **(original)** The solid support of claim 12, bearing at least 100 probes on the surface thereof.
15. **(original)** The solid support of claim 12, bearing at least 500 probes on the surface thereof.
16. **(cancelled)**
17. **(original)** The solid support of claim 12, bearing a probe density between $2 - 6 \times 10^{-11}$ moles per cm^2 .
18. **(original)** The solid support of claim 12, bearing a probe density between $3 - 4 \times 10^{-11}$ moles per cm^2 .
19. **(original)** The solid support of claim 12, wherein the array comprises a library of target moieties.

Claims 20-47. **(canceled)**

48. **(currently amended)** The ~~support-bound probe~~ solid support of claim 12, wherein the linking moiety is an alkylene group.
49. **(currently amended)** The ~~support-bound probe~~ solid support of claim 12, wherein the linking moiety is polyethylene glycol.